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BayRS and Site Manager Software Installation

NORTEL NETWORKS™

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BayRS and Site Manager Software Installation

This guide describes how to install BayRS* (router software) and Site Manager software from CD.

Before You Begin

Review this section before using the CD to install, upgrade, or modify BayRS and Site Manager software.

Installing New Routers and Software

If you received this CD with a new router, you can use the instructions in this guide to install Site Manager from the CD. (BayRS is already installed on your router.) But first you must:

- Install the router as described in its installation guide.
- Create your first network connection with the Quick-Start procedure.

For information about the Quick-Start procedure and complete Site Manager system requirements and installation instructions, see *Quick-Starting Routers*. You should be familiar with the instructions in *Quick-Starting Routers* before using this guide.

Upgrading and Modifying Router Software

If you received this CD as part of an upgrade, you can use the instructions in this guide to install Site Manager and BayRS from the CD. But first you must review the upgrading guide and, if applicable, the upgrade section of the Document Change Notice for your version of BayRS.

If you need to reinstall or modify BayRS, you should review *Configuring and Managing Routers with Site Manager* before using this guide.

Mounting the CD (UNIX Only)

The command for mounting the CD varies depending on the specific configuration of the workstation, such as the number of CD-ROM drives. If the suggested **mount** command fails, consult your operating system documentation.

To mount the CD:

1. **Insert the appropriate CD and drive tray into the CD-ROM drive.**

   On Solaris, the Volume Manager automatically mounts the CD onto /cdrom/rtr_15*xx*. Go to "Installing Site Manager" on page 3. If the CD does not mount automatically, see "Manually Mounting a CD on Solaris" on page -3.

2. **Log in as root by entering:**

   su

3. **At the password prompt, enter your root password.**

4. **If a subdirectory or file system does not already exist for the CD, create one by entering one of the following commands:**

   - For HP-UX, enter:

     mkdir /cdrom

   - For AIX, enter:

     crfs -v cdrfs -p ro -d'cd0' -m /cdrom -A'no' -t'no'

5. **Mount the CD by entering one of the following commands:**

   - For HP-UX, enter:

     mount -F cdfs -r -o cdcase /dev/dsk/*<cd_address>* **/cdrom**

   - For AIX, enter:

     mount -o ro -v cdrfs /dev/*<cd_address>* **/cdrom**

Go to "Installing Site Manager" on page 3.

Manually Mounting a CD on Solaris

To mount a CD on Solaris manually:

1. **Log in as root by entering:**

   su

2. **At the password prompt, enter your root password.**

3. **Display the vold daemon's process ID by entering:**

   ps -ef | grep vold

4. **If there is a process running for the vold daemon, enter:**

   kill *<process_id>*

5. **If a subdirectory does not already exist for the CD, create one by entering:**

   mkdir /cdrom

6. **Mount the CD by entering:**

   mount -F hsfs -o ro /dev/dsk/*<cd_address>* **/cdrom**

Installing Site Manager

This section describes how to install Site Manager from the CD in the following sections:

- Supported Workstations
- Installing Site Manager on a PC
- Installing Site Manager on a UNIX Workstation

For system requirements and complete installation instructions, see *Quick-Starting Routers*.

Supported Workstations

Site Manager software runs on the following workstations:

- 486 PC (Pentium PC recommended)
- 486/100 workstation (Pentium workstation recommended)
- Sun SPARCstation 10 or 20
- Sun UltraSPARC
- HP 9000 workstation Series 700 or 800
- IBM RS/6000 340, 370 workstation
- IBM PowerPC

See *Quick-Starting Routers* for other system requirements.

Installing Site Manager on a PC

If you are installing a new version of Site Manager on a PC, be aware that the installation will overwrite the c:\windows\siteman.ini file. If you plan to run more than one version of Site Manager on the same PC, copy the existing siteman.ini file under a new name, then edit the newly installed siteman.ini file to include the information from the previous versions.

To install Site Manager software on a PC running Windows* 98, Windows NT*, or Windows* 2000:

1. **If you are reinstalling Site Manager, delete existing Site Manager state files, which are created for all Site Manager tools that you use.**

   In the Run window, enter:

   del c:\wf*.sts

2. **Insert the Site Manager CD into your CD-ROM drive.**

3. **Access the Run window by choosing Run from the Start menu.**

4. **Type the CD-ROM drive, path, and executable file:**

   *<cdrom_drive>***:\ms_win\setup.exe**

   Drive D is usually the CD-ROM drive.

   You can also use the Browse button, Windows Explorer, or My Computer to select the CD-ROM drive and the path to the ms_win directory, and then click on the setup.exe file.

5. **Click on OK.**

   For Windows NT only, if the TCP/IP services file is not located in the default directory (C:\WINNT\system32\drivers\etc), the installation script prompts you for the directory.

   The installation script then prompts you for the directory in which you want to install Site Manager.

6. **Enter the name of the directory where you want to install Site Manager, or accept the default directory, c:\wf.**

   The Site Manager files are installed in the specified directory. When the installation is finished, the following prompt appears:

   ```
   Create Windows program group/items automatically?
   ```

7. **To add Site Manager as a selection on the Start > Programs menu, click on Yes.**

   This option allows you to start Site Manager after installation by choosing Start > Programs > Site Manager > PC_Site Manager.

   The following prompt appears:

   ```
   Do you want to start Site Manager now?
   ```

8. **Click on Yes to start Site Manager.**

   The Router Connection Options window opens.

9. **Enter the IP address and SNMP community of the initial router interface that you created during the Quick-Start procedure.**

10. **Click on OK to display the main Site Manager window.**

    After you successfully install and start Site Manager, see *Configuring and Managing Routers with Site Manager* for more information.

Installing Site Manager on a UNIX Workstation

To install Site Manager software on a UNIX workstation:

1. **If you are reinstalling Site Manager, delete existing Site Manager state files, which are created for all Site Manager tools that you use.**

   To delete the Site Manager state files:

   a. **Log in as root by entering:**

      su

   b. **Enter the following command from the home directory of every user account:**

      rm *<home_directory>***/.wf***

2. **Mount the CD.**

   See "Mounting the CD (UNIX Only)" on page -2 for instructions.

3. **For SPARCstations only, edit the /etc/services file to add the following lines at the end of the file:**

   ```
   snmp 161/udp
   snmp-trap 162/udp
   ```

4. **As root, change directories by entering:**

   cd /cdrom

   If you use Solaris and are running the vold daemon, enter:

   cd /cdrom/rtr_15*xxx*

   For example, for BayRS Version 15.0, enter:

   cd /cdrom/rtr_15000

5. **Run the script to load Site Manager software by entering:**

   ./install.sh

Note: If you are using HP-UX and this command does not work, mount the CD again (see "Mounting the CD (UNIX Only)" on page -2) or enter the command as follows: **./"INSTALL.SH;1"**

When the installation is finished, the script displays the message:

```
Site Manager Installation Complete.
```

Messages about your workstation environment may also appear.

6. **Log out of root.**
7. **Log in to a user account that will need to access Site Manager.**
8. **For new installations, create the builder directory by entering:**

   mkdir $HOME/.builder_dir

9. **Edit the shell environment (see *Quick-Starting Routers*).**

   For example, on a workstation using the C shell (csh), add the following lines to the .cshrc file:

   ```
   set path = ($path /usr/wf/bin)
   setenv WF_SMPATH /usr/wf
   setenv SMTERM X
   setenv SM_CONFIGS <config_file_directory>
   setenv BUILDER_DIR $HOME/.builder_dir
   ```

10. **Log out and log in again as the user.**
11. **Start the window environment.**
12. **Verify the Site Manager installation by entering:**

    wfchkinst

13. **Verify the Site Manager environment by entering:**

    wfchkenv

14. **Change to a directory with read/write privileges where Site Manager can save configuration and other files.**
15. **Start Site Manager by entering:**

    wfsm -a *<router_IP_address>* **&**

    router_IP_address is the IP address of the router's initial interface.

16. **Repeat steps 7 through 15 for each user account that will need to access Site Manager.**

Installing BayRS

If you need to upgrade, modify, or reinstall router software, read the tasks in the following sections:

- Loading BayRS on a PC
- Loading BayRS on a UNIX Workstation
- Continuing the Installation

Before you begin the installation, complete the preinstallation tasks for your system (see the upgrading guide and, if applicable, the upgrade section of the Document Change Notice for your version of BayRS). For complete information about using the Image Builder and transferring router files to the router, see *Configuring and Managing Routers with Site Manager.*

Loading BayRS on a PC

To load BayRS on a PC running Windows 98, Windows NT, or Windows 2000:

1. **Insert the CD into the CD-ROM drive.**
2. **Choose Start > Programs > Windows Explorer.**

   The Explorer window opens.
3. **In the Windows Explorer window, click on the CD-ROM drive icon (for example, drive D).**
4. **Click on the rtr_*xxxx* directory, where *xxxx* is the router software version.**

   For example, for BayRS Version 15.0, click on the rtr_15000 directory.

   You see a list of directories specific to the version of router software that you are using, such as an, asn, arn, bn, 5430, and so forth.
5. **Click on the directory for your router platform.**
6. **Copy the router files in the platform directory to a destination folder on your PC.**

   For example, one method you can use to copy the router files to a destination folder is as follows:

   a. **Hold down the Control key and click on each file that you want to copy.**

      The files are highlighted.

b. **Choose Edit > Copy.**

c. **Click on the folder to which you want to copy the router files.**

d. **Choose Edit > Paste.**

The system copies the router files that you selected to the destination folder on your PC.

Go to "Continuing the Installation" on page 10.

Loading BayRS on a UNIX Workstation

To load BayRS on a UNIX workstation:

1. **Insert the CD into the CD drive.**
2. **Mount the CD.**

   See "Mounting the CD (UNIX Only)" on page -2 for instructions.
3. **Change directories by entering:**

   cd /cdrom
4. **Run the script to load the router software by entering the following command:**

   ./copy.sh

Note: If you are using HP-UX and this command does not work, mount the CD again (see "Mounting the CD (UNIX Only)" on page -2) or enter the command as follows: **./"COPY.SH;1"**

During the load procedure, you must specify the following:

- The directory where you want to load the router software, for example, /usr/wf/rtr_15000
- The router platform

The system then loads the software for the platform that you selected.

Continuing the Installation

For complete information about the tasks outlined in this section, see the upgrading guide for your version of BayRS.

1. **Load the router software image into the Image Builder.**

   a. **In the Site Manager main window, choose Tools > Image Builder.**

      The Image Builder window opens. For complete information about the Image Builder, see *Configuring and Managing Routers with Site Manager.*

   b. **Choose File > Open.**

      A window listing directories and files opens.

   c. **Go to the directory where the router software image files reside (for example, /usr/wf/rtr_15000).**

   d. **Double-click on the directory that contains the router software image that you want to load (for example, /usr/wf/rtr_15000/bn).**

   e. **Select the file name of the router software image that you want to load (for example, bn.exe).**

   f. **Click on OK.**

   After you choose the directory and file name of the image, the Image Builder window lists the current components of that image.

2. **Modify the router software image to:**

   - Remove any nonessential files (protocols) that you will not use to save space on the flash card. (Select the component in the Current Components list and click on Remove.)
   - Add new components (protocols) as you need them. (Select the component in the Available Components list and click on Add.)

   For detailed instructions on modifying a router software image, see *Configuring and Managing Routers with Site Manager.*

3. **Save the router software image by choosing File > Save.**

   Nortel Networks™ recommends that you save modified software images in a different directory, and that you use different image names for each router on your network.

4. **Exit the Image Builder by choosing File > Exit.**

5. **Back up the files on the router flash memory card to your management PC or workstation.**

6. **Prepare the router to receive the new software image.**

   Before you can transfer a customized image to the router that you want to upgrade, you must first prepare the router's flash card or flash SIMM to receive a customized image and a configuration file. For instructions, see the upgrading guide for your version of BayRS.

7. **Transfer the customized image and router files to the router.**

   You can use the Router Files Manager to transfer a customized software image and associated router files to the router that you are upgrading using the Trivial File Transfer Protocol (TFTP) command. For instructions, see the upgrading guide for your version of BayRS.

8. **If necessary, upgrade and verify PROMs on the router.**

   The router's programmable read-only memory (PROM) contains software images for its bootstrap and diagnostic code. Bootstrap and diagnostic PROM code is included on the BayRS release media.

   Nortel Networks strongly recommends that you upgrade PROMs in a router to implement the latest software or hardware features before booting with a new version of router software. For instructions on upgrading PROMs, see the upgrading guide for your version of BayRS.

9. **Boot the router with the customized image.**

   After you successfully transfer the customized image to the router and upgrade the PROMs, you can boot the router with the customized image.

   The first time that you successfully boot an ASN* router from a new image, the boot time may be longer. After the initial boot, you can shorten the boot interval by changing the default Netboot settings (see *Connecting ASN Routers to a Network*).

10. **Upgrade the existing configuration file.**

    You need to upgrade existing configuration files to support new BayRS features. Optionally, you can create a new Version 15.*xxx* configuration file to replace your existing configuration file for the router.

    Using the Configuration Manager, upgrade your existing configuration file by booting the router with the current configuration file (config) and then saving it in dynamic mode. This procedure updates the configuration file's version stamp to match the new version of BayRS.

11. **Transfer Technician Interface script files to the router.**

    You must transfer a minimum set of Technician Interface script files to the router. For the list of these files, see the upgrading guide for your version of BayRS.

Unmounting the CD (UNIX Only)

To unmount the CD, enter:

```
cd /
umount /cdrom
```

For CDs automatically mounted on a CD-ROM drive, enter:

```
cd /
eject cdrom
```